

Civil Engineering for Mitigation of Risk from Natural Hazards

Course: Geomatics and GIS: I part

a.y.: 2023/2024

Lecturer: Prof. Andrea Taramelli; TA: Serena Sapio, Chiara Marinelli, Ignacio Gatti

Date: 16/11/2023 – 24/11/2023

Classroom: See the schedule below

Course schedule

Week	Date	Lecture hours From ____ To ____	Classroom	Subject	Tot h
	21/11/2023	9-12 (TA - Chiara)	Aula 1-17 Broletto	Intro- The GIS systems: Overview Lesson 1: The structure: Vector, Raster, GDB	3
	21/11/2023	14-17	Aula 1-17 Broletto	Lesson 2 - Spatial analysis	3
	22/11/2023	9-12 (TA - Serena)	Aula 1-15 Broletto	Lesson 3 - Reference systems and cartography	3
	22/11/2023	14-17	Aula 1-15 Broletto	Lesson 4 - Thematic cartography – Familiarization with QGIS	3
	24/11/2023	9-12 (TA - Serena)	Aula 1-15 Broletto	HO1: Vector and raster	3
	24/11/2023	14-17 (TA - Serena)	Aula 1-15 Broletto	HO2: Reference systems (QGIS) HO3: Operating with vector	3

	27/11/2023	10-13	Aula 1-16 Broletto	HO4: Layout (QGIS)	3
	27/11/2023	14-17	Aula 1-16 Broletto	Lesson 5 - Principles and applications of remote sensing Physics of remote sensing	3
	28/11/2023	9-12	Aula 1-17 Broletto	Lesson 6 - Sensors and imaging systems: active/passive, resolutions	3
	28/11/2023	14-17 (TA - IG)	Aula 1-17 Broletto	Lesson 7 - Services and final products	3
	29/11/2023	10-13 (TA - IG)	Aula 1 MARELLI	Lesson 8 – DA TRADURRE Risposte Spettrali e Indici Radiometrici	3
	29/11/2023	14-17 (TA - Chiara)	Aula 1 MARELLI	HO5: exploring Copernicus Land products and Sentinel 2 and Sentinel 1 imagery	3

Hands-on	Presentation date	Deadline
HO1: Vector and raster (QGIS)		
HO2: Reference systems (QGIS)		
HO3: Operating with vector		
HO4: Layout (QGIS)		
Hands-on session: Copernicus Land, Sentinel 2, Sentinel 1, radiometric indices		